## **Summary of Safety and Effectiveness**

Submitter:

zımmer

Zimmer, Inc.

P.O. Box 708

Warsaw, IN 46581-0708

**Contact Person:** 

Laura D. Williams, RAC Manager, Regulatory Affairs Telephone: (574) 372-4523

Fax: (574) 372-4605

Date:

November 24, 2004

Trade Name:

Sirus® Intramedullary Nail

**Classification Name** 

Intramedullary Fixation Rod 21 CFR § 888.3020

and Reference:

**Predicate Devices:** 

Unreamed Tibial Nail, manufactured by Synthes,

K932330, cleared 03/08/1996

Lateral Entry Femoral Nail System by Synthes,

K040336, cleared 04/12/2004

Osteo IC Retrograde/Antegrade Femoral Nail, manufactured by Osteonics, K982601, cleared

09/14/1998

T2 Femoral Nail System, manufactured by Howmedica Osteonics, K010801, K014220, and K021744; cleared 04/06/2001, 01/25/2002, and

06/26/2002, respectively

**Device Description:** 

The Sirus Intramedullary Nails are manufactured from titanium alloy, and are available in a variety of lengths and diameters. They are intended for insertion into the medullary canal of the femur or tibia for the fixation of fractures.

Traditional 510(k) Premarket Notification



Intended Use:

# Sirus intramedullary nail for femur with cap screw and corresponding locking screws:

- All compound and simple femoral shaft fractures
- Sub-trochanteric fractures
- Pseudarthrosis and delayed union

## Sirus intramedullary nail for femur in combination with the Sirus cervical screws:

• Shaft fractures in combination with femoral neck fractures or peritrochanteric fractures

## Sirus intramedullary nail for tibia with cap screw and corresponding locking screws:

- Simple, compound first- and second-degree tibial shaft fractures
- Pseudarthrosis and delayed union

**Comparison to Predicate Device:** 

The Sirus Intramedullary Nail has the same intended use, has similar performance characteristics, is manufactured from similar materials using similar processes, and is similar in design to the predicate devices.

Performance Data (Nonclinical and/or Clinical):

Non-Clinical Performance and Conclusions:

The results of non-clinical analysis demonstrate that the device is safe and effective and substantially equivalent to the predicate device(s).





Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

JAN 3 1 2005

Zimmer GMBH C/o Zimmer, Inc Ms. Laura D. Williams, RAC Manager, Corporate Regulatory Affairs P.O. Box 708 Warsaw, Indiana 465810

Re: K043270

Trade/Device Name: Sirus<sup>TM</sup> Intramedullary Nail

Regulation Number: 21 CFR 888.3020

Regulation Name: Intramedullary fixation rod

Regulatory Class: II Product Code: HSB

Dated: November 24, 2004 Received: November 26, 2004

Dear Ms. Williams:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0210. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <a href="http://www.fda.gov/cdrh/industry/support/index.html">http://www.fda.gov/cdrh/industry/support/index.html</a>.

Sincerely yours,

Celia M. Witten, Ph.D., M.D.

Director

Division of General, Restorative and Neurological Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

K64 3270

#### **Indications for Use**

510(k) Number (if known):

**Device Name:** 

Sirus™ Intramedullary Nail

**Indications for Use:** 

#### Sirus intramedullary nail for femur with cap screw and corresponding locking screws

- All compound and simple femoral shaft fractures
- Sub-trochanteric fractures
- Pseudarthrosis and delayed union

#### Sirus intramedullary nail for femur in combination with the Sirus cervical screws

• Shaft fractures in combination with femoral neck fractures or peritrochanteric fractures

### Sirus intramedullary nail for tibia with cap screw and corresponding locking screws

- Simple, compound first- and second-degree tibial shaft fractures
- Pseudarthrosis and delayed union

Prescription Use X (Part 21 CFR 801 Subpart D) AND/OR

Over-The-Counter Use (21 CFR 807 Subpart C)

(Please do not write below this line - Continue on another page if needed)

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)

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and Neurological Devices

\*10(k) Number < < 43.270